

Ref BASIS: 12028; 4
 N° d'accès Derwent: 89-214021 [30]
 Titre Derwent: Betaine Gp-contg. polysaccharide with recurring anhydro-glucose units - used in hair compsns., fibre or fabric treatment, paper pulp prodn. and as thickeners

TEXTO_Mots-Clés Papp: POLYMERE AMPHOTERE POLYSACCHARIDE BETAINES CELLULOSE ETHER BETAINES SY PREPARATION
 CHEVEUX SOIN CONDITIONNEMENT EPAISSISSANT

Domaine Principal: Polymères cosmétiques (nouveaux composés)
 Déposants: GOLDSCHMIDT TH AG; GOLDSCHMIDT AG TH
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Résumé (+ Use/Advantage): DE3820030 A polysaccharide with recurring anhydro glucose units possesses N-(3-chloro-2-hydroxy propyl)-N-carboxyalkyl-N, N-dialkyl ammonium betaine gps. ClCH₂-CH(OH)-CH₂-N(+)R₃R₄-R₅-COO(-) (II) (where each R₁ is -CH₃, (CnH_{2n}O)mR₂ or (III), n=2 or 3; m=0-10; p=0-10; R₂ is H or -CH₂-CH(OH)-CH₂-N(+)R₃R₄-R₅-COO(-); R₃ and R₄ each are 1-4C alkyl; R₅ is a divalent 1-10C aliphatic hydrocarbon gp and at least 0.5% (5-20%) of the R₁ gps are betaine gps. Such a polysaccharide may be prep'd by reacting a polysaccharide with recurring anhydroglucose units with NaOH in a polar organic solvent and then reacting with a betaine (II). USE | The polysaccharides give hair an improved smoothness shine and combability and are also useful as thickeners and protective colloids. Used to treat fibres, fabrics etc. to improve the handle by lowering electrostatic charge. Also useful for addn. to paper pulp and for thickening aq. binders. (12pp Dwg.No.0/0); GB2219588 A polysaccharide comprising recurring anhydroglucose units of the average general formula (I); wherein the groups R₁ are identical or different and each is a methyl, (CnH_{2n}O)mR₂ or gp. (i) in which n is 2 or 3, m is 0 to 10 and p is 0 to 10, and R₂ is hydrogen or a betaine group of formula (II); in which R₃ and R₄ are identical or different each is a straight chain or branched C1-C6 alkyl group and R₅ is a straight chain or branched divalent aliphatic C1-C10 hydrocarbon group, with the proviso that at least 0.5% of the radicals R₁ in the polysaccharide molecule comprise a betaine group.; US5124446 Betaine gp.-contg. polysaccharide has recurring anhydro-glucose units of formula (I). Each R₁ is Me, (CnH_{2n}O)mR₂ or CH₂CH(CH₂OH)O)pR₂; n is 2 or 3; m and p are each 0-10; R₂ is H or CH₂CH(OH)CH₂N(R₃)(R₄)R₅-COO; R₃ and R₄ are each (1-4C)alkyl; and R₅ is divalent (1-10C)aliphatic hydrocarbon; such that 0.5% or more of the R₁ gps. are the betaine gp. USE | In synthesis of cosmetic preps. as hair care compsns. (Dwg.0/0); US5243072 Betaine cpd has formula ClCH₂CH(OH)CH₂N(R₃)R₅COO; where R₃ and R₄ are each (1-4C)alkyl, and R₅ is divalent (1-10C)aliphatic. Betaine gp-contg. polysaccharide with recurring anhydro-glucose units have formula (I), and are prep'd. from the betaine cpd. R₁ is Me, (CnH_{2n}O)mR₂ or CH₂CH(CH₂OH)O)pR₂; R₂ is H or CH₂CH(OH)CH₂N(R₃)(R₄)R₅COO; n is 2 or 3; and m and p are each 0-10. At least 0.5% of the R₁ gps are the betaine. USE | As hair care or other cosmetic prep'n. (Dwg.0/0)

Use / Advantage: DE3820030.1 USE > The polysaccharides give hair an improved smoothness shine and combability and are also useful as thickeners and protective colloids. Used to treat fibres, fabrics etc. to improve the handle by lowering electrostatic charge. Also useful for addn. to paper pulp and for thickening aq. binders. (12pp Dwg.No.0/0); GB2219588 empty field; US5124446 1 USE > In synthesis of cosmetic preps. as hair care compsns. (Dwg.0/0); US5243072 1 USE > As hair care or other cosmetic prep'n. (Dwg.0/0)

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